

Kennecott  
Utah Copper  
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Michael H. Gibson  
Director, Environmental Affairs

11/045/004  
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DIVISION OF  
OIL, GAS & MINING

**Kennecott**

January 18, 1990

DOGM  
MINERALS PROGRAM  
FILE COPY

Mr. Wayne Hedberg  
State of Utah Dept. of Natural Resources  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Subject: Pine Canyon Reclamation - Cost Estimate

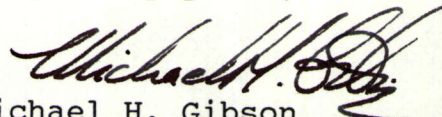
Dear Mr. Hedberg:

As a stipulation of the tentative approval for the Pine Canyon final reclamation plan (dated October 24, 1989), it was requested that Kennecott Utah Copper (KUC) provide a reclamation cost estimate. This estimate will be the source upon which a reclamation surety is based.

The attached list is based on removal costs for remaining structures and contingency costs for maintenance and revegetation of those areas that might need assistance. We would suggest a figure of Seventy-two Thousand Five Hundred Dollars (\$72,500.00) be used for bonding purposes. As you are aware, the Pine Canyon area was reclaimed in 1988 and 1989.

Please contact me or my staff if you have any questions or comments. The reclamation surety in the form of a self-bond will be secured upon concurrence on these costs.

Very truly yours,



Michael H. Gibson  
Director, Environmental Affairs

MHG:bt

Enclosure

cc: R. K. Davey  
B. D. Kale  
C. F. Stillman  
File: Pine Canyon Rec.

KENNECOTT UTAH COPPER CORPORATION

ESTIMATED CONTINGENCY COSTS FOR FINAL RECLAMATION

Pine Canyon Reclamation Project

<u>Item</u>	<u>Cost</u>
Demolition/Burial remaining structures	\$14,970
Earthwork/Regrading	6,480
Removal of Waste Rock	12,370
Construction of Water Retention Berms	6,490
Removal of External Metal from Headframe	6,000
Pine Canyon Tunnel Portal Removal	3,270
Riprap	550
Revegetation	8,290
Asphalt Water Bars	500
Monitoring	1,920
Repairs to Vegetation	<u>4,920</u>
Subtotal	\$65,800
Construction Supervision (10% of subtotal)	<u>6,600</u>
Total	\$72,400

Unit costs were obtained from Means Site Work Cost Data, 1989. Quantities of materials were calculated from the June 28, 1989 reclamation plan prepared by JBR Consultants Group.